

RUNNER FOR EXTENSION TABLE

BACKGROUND OF THE INVENTION

1. Field of the Invention

The present invention relates to a runner for an extension table, and more particularly to a runner that provides a reliable and robust support for leaves of the extension table.

2. Description of Related Art

Extension tables comprise sliding leaves and runners for the leaves. A runner of an extension table in accordance with the prior art has a track assembly for supporting slidably the sliding leaves. However, when the extension tables are transported or stored, the extension tables will be stacked one on top of another to save space. Thus, the bottom one of the stacked extension tables suffers the accumulated weight of the stacked extension tables. Long-term accumulated weight loaded on the bottom extension table will damage the track assembly of the bottom table, such as deforming the track assembly or loosening a combination of the track assembly. In such a situation, the sliding leaves will not slide smoothly on the runner and the track assembly should be replaced with a new one to fix the aforesaid problem for the runner.

To overcome the shortcomings, the present invention provides a runner for an extension table to mitigate or obviate the aforementioned problems.

SUMMARY OF THE INVENTION

The main objective of the invention is to provide a runner for an extension table, and the runner has a strengthened structure to support slidably leaves of the extension table to prevent the runner from being damaged during a

1 period of transport or storage.

2 Other objectives, advantages and novel features of the invention will
3 become more apparent from the following detailed description when taken in
4 conjunction with the accompanying drawings.

5 BRIEF DESCRIPTION OF THE DRAWINGS

6 Fig. 1 is an exploded perspective view of an extension table with a
7 runner in accordance with the present invention;

8 Fig. 2 is a side plan view in cross section of the extension table in Fig. 1;

9 Fig. 3 is an enlarged cross sectional view of the runner in Fig. 1; and

10 Fig. 4 is an enlarged perspective view in cross section of the runner in
11 Fig. 3.

12 DETAILED DESCRIPTION OF PREFERRED EMBODIMENT

13 With reference to Figs. 1 and 2, an extension table (not numbered)
14 comprises a leg assembly (10), two runners (20), two sliding leaves (30) and
15 multiple removable leaves (31). The runners (20) are respectively mounted on
16 ends of the leg assembly (10) and located opposite to each other. The sliding
17 leaves (30) are slidably attached to the runners (20) and can be abutted with and
18 separated from each other. The removable leaves (31) are mounted on the
19 runners (20) between the sliding leaves (30) for an extension of the table.

20 With reference to Figs. 2 to 4, the runner (20) in accordance with the
21 present invention comprises a primary transverse beam (21), a secondary
22 transverse beam (22) and a track assembly (23). The primary transverse beam
23 (21) is made of wood and is transversely mounted on the leg assembly (10). The
24 primary transverse beam (21) has a side (not numbered).

1 The secondary transverse beam (22) is made of wood, is attached
2 securely to the side of the primary transverse beam (21) and has a top (not
3 numbered) and multiple holes (221). Each hole (221) receives a fastener, such as
4 a tapping screw (223) that screws into the secondary transverse beam (22),
5 extends out of the secondary transverse beam (22) and screws into the primary
6 transverse beam (21) to fasten the primary and secondary transverse beams (21,
7 22) together. Adhesive is used to stick the primary and secondary transverse
8 beams (21, 22) together before the tapping screws (223) fasten them together.

9 The track assembly (23) is conventional and is attached to the side of the
10 primary transverse beam (21). The track assembly (23) has a stationary track
11 (231), a sliding track (232) and multiple rollers, such as rolling balls (233). The
12 stationary track (231) is attached to the side of the primary transverse beam (21)
13 and has a bottom (not numbered) and multiple holes (234). Each hole (234) in
14 the stationary track (231) receives a fastener, such as a tapping screw (223) as
15 previously described. The bottom of the stationary track (231) abuts exactly the
16 top of the secondary transverse beam (22). Thereafter, the secondary transverse
17 beam (22) provides a robust support to the track assembly (23) to prevent the
18 track assembly (23) from being deformed by an accumulated weight during a
19 period of transport or storage.

20 The sliding track (232) is slidably mounted in the stationary track (231)
21 and connects to the sliding leaves (30). The rolling balls (233) are mounted
22 intermediately between the stationary track (231) and the sliding track (232) to
23 provide a capability of the sliding track (232) sliding in the stationary track
24 (231).

1 Consequently, as the primary and secondary transverse beams (21, 22)
2 are both made of wood, the adhesive can firmly stick them together and co-
3 operate with the fasteners to effectively fix them together. The track assembly
4 (23) will not be damaged by the accumulated weight caused by stacking the
5 extension tables for being conveniently transported or stored. The sliding leaves
6 (30) can be separated smoothly to extend the table with the removable leaves
7 (31). The extension tables with the runners in accordance with the present
8 invention will become durable and convenient for use.

9 Even though numerous characteristics and advantages of the present
10 invention have been set forth in the foregoing description, together with details
11 of the structure and function of the invention, the disclosure is illustrative only,
12 and changes may be made in detail, especially in matters of shape, size, and
13 arrangement of parts within the scope of the appended claims.